

# इंटरनेट

# मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 8261-1 (1976): Pins and Wires, Skeletal, Traction, Part I: Kirschner Wires [MHD 2: Orthopaedic Instruments, Implants and Accessories]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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AMENDMENT NO. 1    APRIL 1985

TO

IS:8261 (Part 1)-1976 SPECIFICATION FOR PINS AND  
WIRES, SKELETAL, TRACTION

PART 1    KIRSCHNER WIRES

(Page 1, clauses 3 to 3.3.3) - Substitute the  
following for the existing clauses:

'3. Material - Shall be in accordance with IS:8261  
(Part 4) Specification for pins and wires, skeletal,  
traction, Part 4 Materials and mechanical requirements.'

(CPDC 24)

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Reprography Unit, ISI, New Delhi, India

7 NOV 2003



Indian Standard

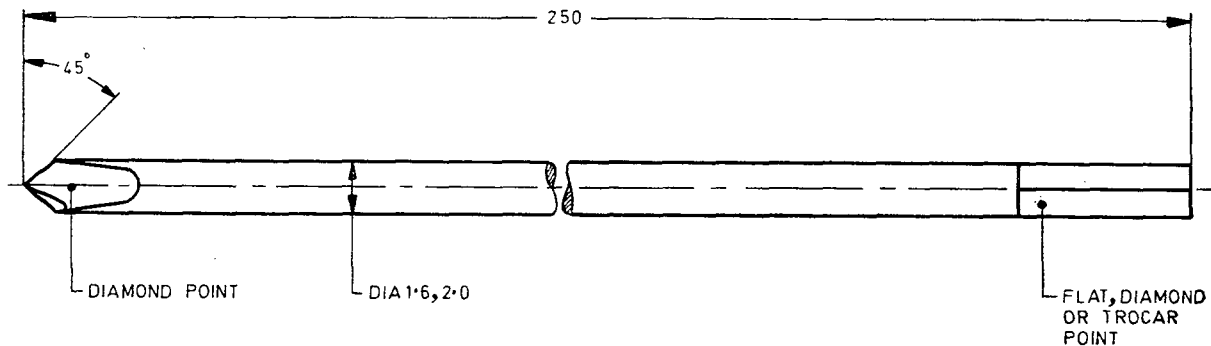
# SPECIFICATION FOR PINS AND WIRES, SKELETAL, TRACTION

## PART I KIRSCHNER WIRES

"पुनर्पुष्टि १९८२"  
"REAFFIRMED 1982"

**1. Scope** — Dimensional and other requirements for skeletal traction Kirschner wires, used for skeletal traction and internal fixation in orthopaedic surgery.

**2. Shape and Dimensions** — As shown in Fig. 1.



All dimensions in millimetres.

FIG. 1 PINS AND WIRES, SKELETAL, TRACTION — KIRSCHNER WIRES

**2.1** A deviation of  $\pm 2.5$  percent shall be allowed on all dimensions.

**2.2 Ends** — The wires shall have trocar or diamond point having included angle of  $45^\circ$ . The end opposite the point may be flat or trocar. The wires may have diamond points at both ends.

**2.3 Diameter** — The diameter of wires shall be 1.6 or 2.0 mm (see IS:1137-1959 Specification for thicknesses of sheet and diameters of wire).

**2.4 Length** — The wires shall be supplied in lengths of 250 mm or as specified by the purchaser.

**3. Material** — Shall be austenitic stainless steel, wrought cobalt chromium alloy or titanium alloy in accordance with 3.1 to 3.3.

### 3.1 Austenitic Stainless Steel

**3.1.1 Composition** — The composition of the material shall be in accordance with A-1.1 of IS: 5347-1969 'General requirements of metal surgical implants'.

**3.1.2 Condition** — The wires shall be in the cold drawn condition but may have received stress relieving treatment at a temperature not exceeding  $450^\circ\text{C}$ .

**3.1.3 Tensile strength** — The minimum tensile strength shall be 1 550 N/mm<sup>2</sup>.

### 3.2 Wrought Cobalt Chromium Alloy

**3.2.1 Composition** — The composition of the alloy shall be in accordance with A-3.1 of IS: 5347-1969.

**3.2.2 Condition** — The wires shall be in the cold drawn condition but may have received stress relieving heat treatment in inert atmosphere.

**3.2.3 Tensile strength** — The minimum tensile strength shall be 1 280 N/mm<sup>2</sup>.

### 3.3 Titanium Alloy

**3.3.1 Composition** — The composition of the alloy shall be in accordance with A-4.1 of IS: 5347-1969.

## **IS : 8261 ( Part I ) - 1976**

**3.3.2 Condition** — The wires shall be in the cold drawn condition and centreless ground.

**3.3.3 Tensile strength** — The tensile strength shall be between 1 150 N/mm<sup>2</sup> and 1 400 N/mm<sup>2</sup>.

### **4. Workmanship and Finish**

**4.1** The wires shall be free from seams, lapse, draw marks, cracks, pits, etc.

**4.2** Unless otherwise stated, the wires shall have a well polished finish.

**5. Test** — The wires shall meet the requirements of corrosion resistance test as given in **6.1.1** of IS : 5347-1969.

### **6. Marking**

**6.1** The packet containing wires shall be clearly and indelibly marked with the following:

- a) Manufacturer's name, initial or his recognized trade-mark;
- b) Name of the material; and
- c) Size.

**6.2 ISI Certification Marking** — Details available with the Indian Standards Institution.

### **7. Packing**

**7.1** As agreed to between the purchaser and the supplier.